Notice of Allowability	Application No.	Applicant(s)
	10/815,035	MALTSEV ET AL.
	Examiner	Art Unit
	Emmanuel Bayard	2611
		2011
The MAILING DATE of this communication appeall claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG	OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to	plication. If not included not will be mailed in due course, THIS
1. X This communication is responsive to <u>amendment filed on 7.</u>	<u>/24/07</u> .	
2. X The allowed claim(s) is/are 1-46 renumbered as1-7, 10-17, 8-9, 18-27, 30-37, 28-29 and 38-46, respectively		
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a)		
Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Paper No./Mail Da 7.	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9. Other	
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DETAILED ACTION

This is in response to communication filed on 7/24/07 in which claims 1-46 are pending. The applicant's amendments have been fully considered therefore this case is in condition for allowance. In addition the pending claims have been renumbered as 1-7, 10-17, 8-9, 18-27, 30-37, 28-29 and 38-46, respectively.

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance: the prior art of record fails to anticipate or render obvious the following recited features: estimating a throughput for the multicarrier communication channel for each of a plurality of data rates from a sum of the individual subcarrier capacities and a predicted packet error ratio (PER) for each of the data rates and selecting one of the data rates based on the estimated throughputs~ wherein for a subsequent transmission, the individual subcarriers are to have a uniform modulation and code rate based on the selected data rate as recited in claims 1, 21, 41 and 44. Wherein the calculating operation is performed by a receiving station based on a known transmit power level provided by the transmitting station in a current packet, the current packet being a request to send (RTS) packet, wherein the method further comprises: determining, by the receiving station, the channel state information from channel estimates and noise power estimates performed on the RTS packet; and sending, by the receiving station, the data rate instruction to the transmitting station in a clear-to-sent (CTS) packet, the transmitting station to responsively transmit at least portions of a data packet to the

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receiving station in accordance with the data rate instruction as recited in claim 8 and all the features of independent claims 9, 15, 18, 28-29, 35 and 38.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Jacobsen et al U.S. Pub No 2005/0068916 A1 teaches an apparatus and methods for communicating using symbol modulated subcarriers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel Bayard whose telephone number is 571 272 3016. The examiner can normally be reached on Monday-Friday (7:Am-4:30PM) Alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571 272 3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

9/14/2007

Emmanuel Bayard.
Primary Examiner
MMAMUELIBA 2807
FIMARY EXAMINER